

**Amendments to the Specification:**

Please replace the paragraph beginning on page 7, line 4 as follows:

--FIGS. 12a to ~~12d~~ 12c give an example of the states of a plantar pressure sensor with reference to the data signal and its three first differentiation for a plantar pressure sensor at the metatarsophalangeal (MP) region.--

Please replace the paragraph beginning on page 21, line 12, as follows:

--FIGS. 11a to 11d show graphically the state boundary conditions for a typical localized plantar pressure signal, and its first three differentials, at the calcaneous region, while FIGS. 12a to ~~12d~~ 12c do so for the localized plantar pressure signal, and its first two differentials, at the MP region. This shows the relationships between the various data and derivative signals, and the states.--